

IN THE CLAIMS:

Claims 1-27, and 34-36 have been cancelled by this Amendment, claims 28-33, 40, and 41 were previously cancelled, thereby leaving claims 37-39, and 42-58 pending:

1-36. (Cancelled)

37. (Previously Presented) A method for detecting a desired signal in an electromagnetically noisy environment, the method comprising:

detecting with a first antenna electromagnetic signals comprising a noise signal and the desired signal;

detecting with a second antenna electromagnetic signals comprising substantially the noise signal; and

inverting the noise signal detected by the second antenna, and summing the inverted noise signal to the desired signal detected by the first antenna to generate a summed signal;

compressing the summed signal using digital signal processing (DSP) to generate a compressed signal;

filtering the compressed signal using DSP to generate a filtered signal comprising substantially the desired signal; and

expanding the filtered signal using DSP.

38. (Previously Presented) A method for detecting a desired signal in an electromagnetically noisy environment, the method comprising:

detecting with a first antenna electromagnetic signals comprising a noise signal and the desired signal;

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